

DEADLOCK AVOIDANCE IN A BUS FABRIC

ABSTRACT

Circuits, apparatus, and methods for avoiding deadlock conditions in a bus fabric.

One exemplary embodiment provides an address decoder for determining whether a received posted request is a peer-to-peer request. If it is, the posted request is sent as a non-posted request. A limit on the number of pending non-posted requests is maintained and not exceed, such that deadlock is avoided. Another exemplary embodiment provides an arbiter that tracks a number of pending posted requests. When the number pending posted requests reaches a predetermined or programmable level, a Block Peer-to-Peer signal is sent to the arbiter's clients, again avoiding deadlock.

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